

Claim 1. A method of producing a biomaterial measuring device that uses an electrochemical assay, comprising:

forming a plurality of reaction elements on a first substrate, wherein forming a reaction element comprises:

forming at least two first electrodes on a first side of [[a]] the first substrate,

forming a second electrode on a second side of the first substrate, wherein the second electrode transmits an electrical signal to a measuring device,

forming a via hole through the first substrate,

electrically connecting, through the via hole, the first electrodes on the first side of the first substrate to the second electrode on the second side of the first substrate, and

applying an assay reagent to the first electrodes on the first side of the first substrate;

cutting the first substrate into a plurality of reaction elements;[[.]]

forming at least one cavity, each with space for a capillary, on one side of a second substrate;[[.]] and

forming at least one capillary, by attaching the first side of at least one reaction element into at least one of the cavities in the second substrate;[[.]]

wherein each capillary is for feeding a biomaterial therethrough.